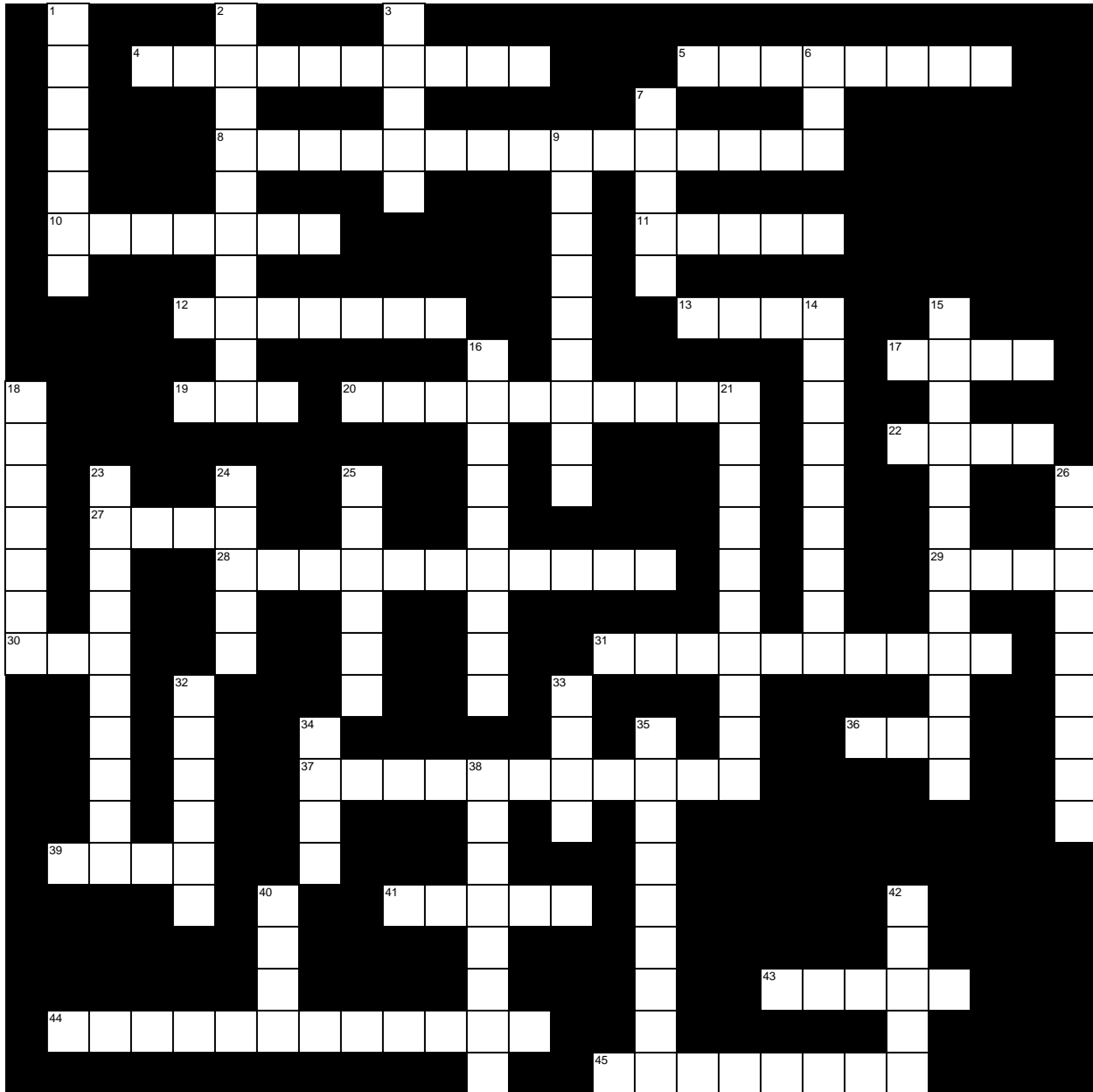


Antenna Theory Simplified



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ACROSS

- 4 Current in short dipole
 5 Antenna feed-line
 8 Radiates uniformly in two dimensions
 10 _____ principle of frequency independent antennas
 11 Resistance of antenna conductors
 12 Type of balun
 13 Uda antenna
 17 Used to cancel the capacitive reactance of a short monopole
 19 The number of active dipoles in a Yagi
 20 Radiation _____
 22 The impedance of a monopole is _____ that of a dipole
 27 All small loops of the same _____ will radiate the same
 28 A broadband dipole array
 29 Current at the tip of a dipole or monopole
 30 Dipole impedance, abr.

- 31 Approximate circumference of loop when reactance is zero
 36 Number of parts in a monopole antenna
 37 Principle that states. when receiving and transmitting antennas are interchanged, the results will be the same
 39 Phase constant
 41 Antenna book author
 43 Radiation resistance of short dipole
 44 Impedance of very thin resonant dipole (ohms)
 45 Dipole with real feed-point impedance

DOWN

- 1 Current in small loop
 2 2.14 dBi
 3 Transmission lines _____ energy
 6 The number of active elements in a log-periodic
 7 A combination of two antenna types
 9 "a" is the _____ radius
 14 Impedance of small loop

- 15 Determines the orientation of the electric field
 16 A very "thick" dipole
 18 Length of resonant monopole, _____ wavelength
 21 Radiation _____ = the ratio of radiated power to total input power
 23 Impedance of short dipole
 24 Performs a transformation
 25 Two straight co-linear wires
 26 Type of theoretical radiator
 32 Capacitively loaded monopole
 33 A basic wire antenna type
 34 Used to make a dipole resonant at two or more frequencies
 35 As gain of antenna increases it becomes more _____
 38 The reactances of a loop antenna are connected in _____
 40 Aperture antenna
 42 Matching network for small loops, _____ capacitor